

Morrison Planetarium

Sky Shows

The Christmas Star explores the incomparable winter skies along with the mystery and meaning of the legend of the Christmas star through January 5.

Halley's Comet Update opens January 10 and reveals the latest findings on the most famous comet of all time. Telescopes on Earth and spacecraft launched months ago are gradually uncovering the secrets of this long awaited visitor from outer space. What is Halley's Comet? How can you best see it and when will it come again? The latest findings on Halley's and other comets will be unveiled in Halley's Comet Update through April 27.

Sky shows can be seen on weekdays at 2:00 p.m. and weekends and holidays at 1:00, 2:00, 3:00 and 4:00 p.m.

Due to the popularity of the shows, members are reminded to be at the planetarium box office at least ten minutes before each performance in order to be assured of getting a seat.

Exploring the Skies of the Season offers a look (no matter what the weather) at the glorious night skies over San Francisco. Shows are on Saturdays and Sundays at 12 noon.

Laserium

Laserium uses a 1-watt krypton gas laser to trace intricate, multicolored patterns of light against the Planetarium's star-filled sky. A 5-watt argon laser adds dazzling beams of azure light to each show which is performed live to a variety of music ranging from classical to rock.

Crystal Odyssey is a program of classical music by Bach, Saint-Saens, Grieg, Mussorgsky and others performed against a backdrop of lyrical weaving lasers. Crystal Odyssey is presented on Saturdays and Sundays at 5:00 p.m. Tickets are \$4 for adults and \$3 for seniors and children 6-12.

Led Zeppelin: In The Beginning, featuring hits from Led Zeppelin's first four albums, is presented Thursday through Sunday at 9:00 p.m. with late shows on Friday and Saturday at 10:30 p.m.

Dark Side of the Moon is a memorable laser light show set to the music of the incomparable Pink Floyd. Shows are Friday, Saturday and Sunday at 7:30 p.m.

Tickets for Led Zeppelin and Dark Side of the Moon are \$5 for adults and \$3 for seniors and children 6-12. Children under 6 are not admitted to Laserium shows. There are discount prices for groups of ten or more. Members are reminded that their complimentary planetarium passes are not valid for Laserium shows. Tickets are available one half hour before showtime at the planetarium box office.

You can bring your own FM Walkman type radio to all Laserium concerts and choose your own listening volume.

Show titles are subject to change without notice. For recorded Laserium information call (415) 750-7138.

Planetarium Concert Series

The Morrison Planetarium's Spring Concert Series offers programs by acclaimed musicians presented under the starry skies of the planetarium's 65 foot dome.

The Berkeley Mandolin Ensemble with guest artist Rudy Cipolla
January 21 8:00 p.m.

This lively group will offer a wide range of selections from their remarkable repertoire and will play host to the legendary Rudy Cipolla.

Other concerts in the series include:

Slaryanka - February 18
Slavic men's chorus

Kevin Carr and Todd Denman - March 18
Irish music

Platero - April 22 (tentative)
Sandy Smith and Jack Montgomery playing Peruvian harp

Blue Flame String Band - May 13
Cajun music

Tickets are \$4 for members and \$6 for non-members for each performance. Tickets for

the entire series are \$15 for members and \$25 for non-members. To make reservations please send a check made out to the California Academy of Sciences and a self-addressed, stamped envelope to Planetarium Concert Series, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118. For information call (415) 750-7127.

Special Evening in the Planetarium

Emerald Web
February 3, 4, and 5 8:00 p.m.

Emerald Web will weave magic using their unique electronic music during their three evening concerts.

Tickets are \$4 for members and \$6 for non-members and are available by sending a check made out to the California Academy of Sciences and a self-addressed, stamped envelope to Emerald Web, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118. For information call (415) 750-7127.

Y oung Audiences

This exciting series of professional performing arts programs for children, presented on the last Wednesday and Sunday of each month at the Natural History Museum and Aquarium, explores science and cultural anthropology through music, dance and theater. This series is made possible by a grant from McKesson Foundation, Inc. to Young Audiences of the Bay Area, a non-profit organization sponsoring art programs in local schools.

Sunday, January 26 1:00 p.m.
Wednesday, January 29* 11:00 a.m.

Court Revels, through Renaissance dance and costumes, brings another era to life.

*Wednesday performance for school groups is by reservation only. Call (415) 495-8380 for information.

T raditional Arts

The Phyllis Wattis Traditional Arts Series reflects the Bay Area's exciting blend of colorful cultures and ethnic groups from around the world. Every Saturday at 1:00 p.m. one group shares some aspect of its cultural heritage with visitors to the Natural History Museum and Aquarium. These free programs in Wattis Hall are funded by a grant from the Paul L. and Phyllis Wattis Foundation.

January 4 - Start the New Year with a folk dance workshop! Members of the Folk Dance Federation of California will teach a variety of early American dances to museum visitors. Wear your dancing shoes!

January 11 - Singer/guitarist Simon Dray performs a medley of French songs, both traditional and modern.

January 18 - Anne Lewis Hansen, an Acoma Pueblo Indian from New Mexico, demonstrates ancient pottery methods still practiced by Acoma women today.

January 25 - Join the Scots in their Burns' Night (January 25) celebrations! The Red Thistle Dancers perform Scottish dances accompanied by Aaron Shaw on the highland bagpipes.



Special Lectures

Diet and Human Evolution: From Foraging to Fast Foods

Sunday, February 9 9:30 a.m. - 5:00 p.m.
Zellerbach Hall, U.C. Berkeley

The L.S.B. Leakey Foundation, in cooperation with the California Academy of Sciences and U.C. Berkeley, will present a symposium on the links between the diet of our ancient ancestors and our dietary habits today. Biologically and genetically our physiology is similar to primates of 100,000 years ago, but our modern eating habits are very different. What are the implications of imposing a fast-food diet on a "foraging" physiology? The topic of diet cannot be isolated from man's way of life which includes the male's role, women's work, birth-spacing, weaning, settlement patterns, adjustment to the seasons, and "adaptation" in the broadest sense. This symposium will focus on some of the important social and ecological ramifications of nutrition.

Speakers include:

Dr. Mary D. Leakey, Archaeologist, National Museums of Kenya, "Our Stone Age Ancestors: The Fossil Evidence"

Jane Brody, New York Times personal health columnist and science writer. "The Modern Diet Has Come a Long Way, But Is It the Right Way?"

Dr. S. Boyd Eaton, Radiologist and Associate Clinical Professor at Emory University, "Paleolithic Nutrition and Modern Disease."

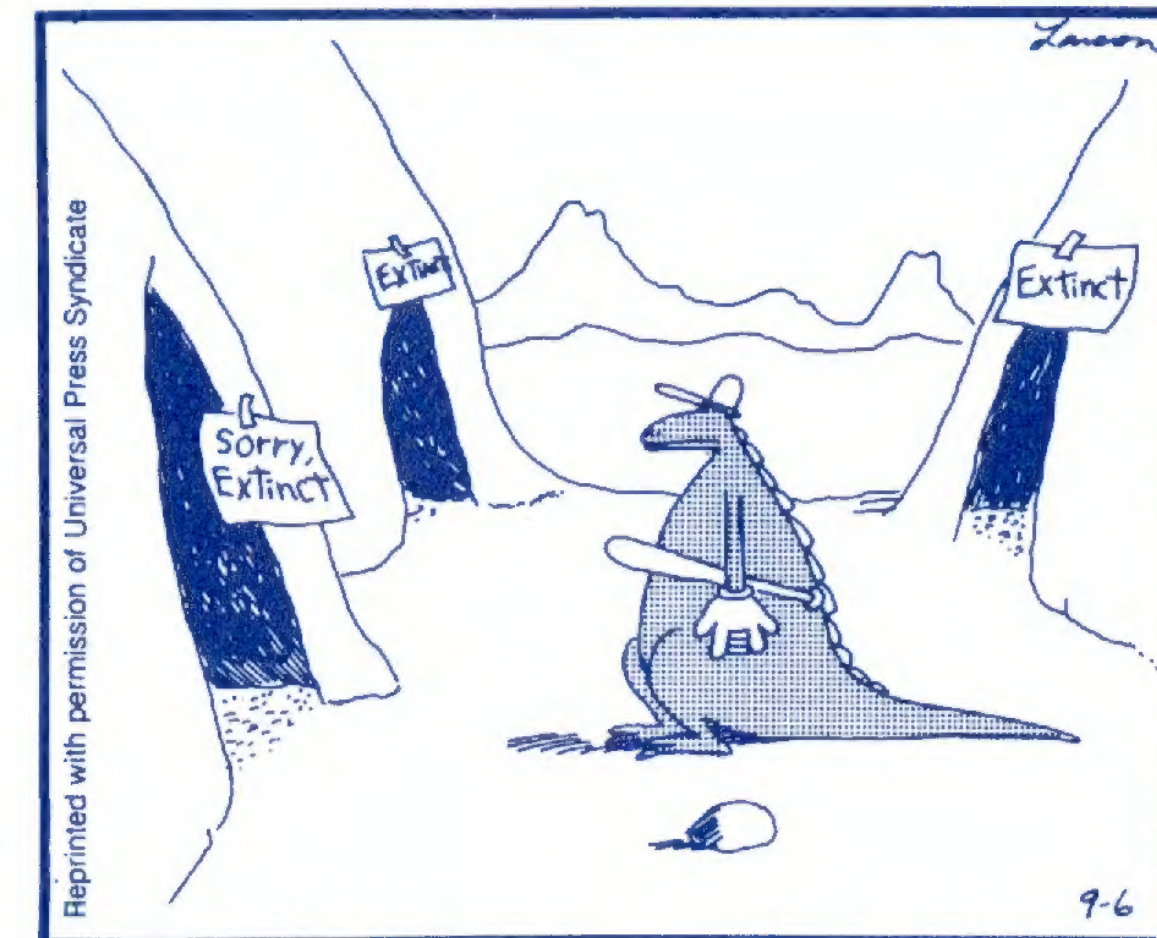
Dr. Solomon Katz, Professor of Anthropology, University of Pennsylvania, "The Evolution of Cuisine: Agriculture to the Present."

Dr. Melvin Konnor, Chairman of the Anthropology Department, Emory University, "Social Subsistence and Dietary Adaptions of Modern Hunter-Gatherers"

Dr. Richard Wrangham, Professor of Anthropology, University of Michigan, "The Original Fast-Food Freaks: A Primate Background to Human Diet."

The Coordinator-Moderator of the symposium will be **Irven DeVore**, Professor of Anthropology and Biology, Harvard University.

Special Exhibits



**Suddenly,
Bobby
felt
very
alone
in the
world.**

The Far Side of Science features 400 original Far Side cartoons by Gary Larson. Organized by the California Academy of Sciences, this is the first show to display the off-beat humor of Larson whose work often depicts science and scientists with tongue-in-cheek wisdom. Far Side cartoons are combined with equally amazing yet very real artifacts from the Academy's enormous scientific collections. A huge walk through microscope, a trivia telephone and images of Gary Larson caught in collecting jars add to the fun of this exhibition which can be seen in Hohfeld Gallery I and II through June 22.

Captured by Camera features the work of National Geographic photographer Flip Nicklin and researcher Charles Arneson of Scripps Institution of Oceanography. These vivid pictures of life in the sea include some never-before-photographed creatures from the deep. This exhibition can be seen in Lovell-White Hall through February.

The Pantanal: Brazil's Wetland Wilderness tells the fascinating history and scientific value of this beautiful area. Color photographs by Vic Banks encourage concern for the preservation of this special wilderness. The Pantanal will be on display in Cowell Gallery through April 6.

The Pribilof Islands are documented in color photographs by Kevin Schafer in Lower Cowell Gallery through April.

California Gold, an historic collection of gold from the state of California's mineral collection, is on display through mid-March in Mineral Hall.

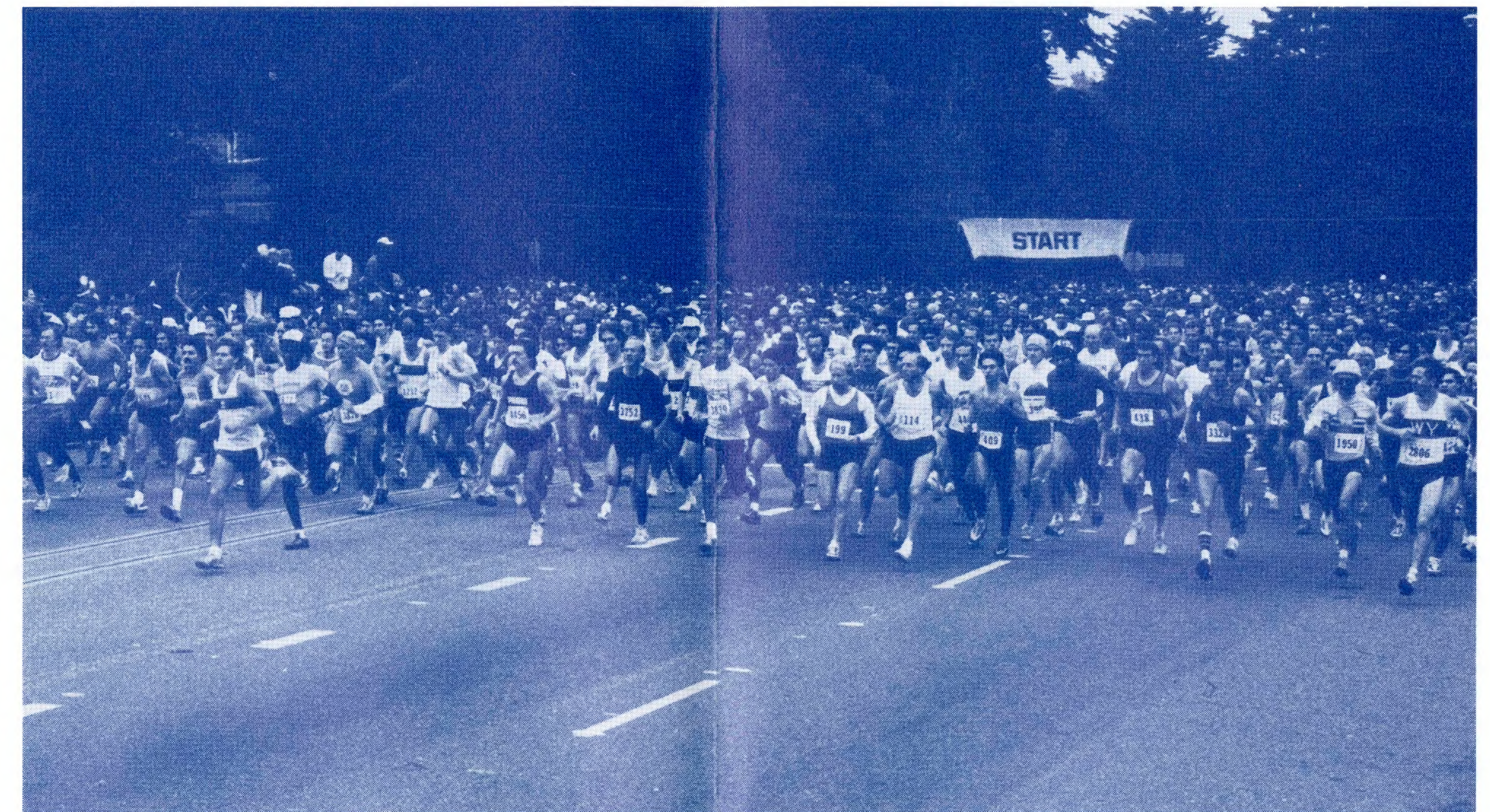
Inside the Academy

The 1984-85 Annual Report is now available. Academy members may request a copy by sending a card to: Annual Report, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118. The report will be mailed without charge only to members who request it.

The first series of seminars for high school science teachers has been announced by the Fellows of the California Academy of Sciences. Presentations will be offered on three Saturdays by distinguished research scientists. Teachers will receive a \$100 stipend if they attend all three Saturdays in the series - February 15, April 12, and May 10, 1986. For information contact Susan Douglas at (415) 750-7095.

Highlight Tours of the Natural History Museum and Aquarium are now being offered to the public by the Docent Council of the California Academy of Sciences. The free, one hour tours begin at the Information Desk in Cowell Hall on Tuesdays and Thursdays at 1:00 p.m. and Saturdays at 11:00 a.m. No advance reservations are necessary. (School and group tours are by reservation only.) For information call (415) 750-7155.

Nearly 6,000 runners took place in the Run to the Far Side on December 1. The run marked the opening of the new exhibition "The Far Side of Science" and was a memorable day for both the runners and the 125 volunteers who helped make the day such a success. Gary Larson gave out the awards to the winners in each division, who were then among the first visitors to chuckle their way through the new exhibit.



Run to the Far Side

**Diet and Human Evolution
TICKET ORDER FORM**

Name _____

Street _____

City _____

State _____ Zip _____

Daytime Phone (_____) _____

I/We wish to order the following tickets:

____ Student @\$15 = \$ _____

____ General @\$35 = \$ _____

____ *Sponsor @\$125 = \$ _____

____ *Patron @\$500 = \$ _____ Total \$ _____

I cannot attend the symposium but am contributing \$ _____
toward student scholarships.

Payment: Enclosed is my check for \$ _____

Please charge my ☐ Visa ☐ MasterCard

Expiration date _____

Card Number _____

Signature _____

Ticket orders received 10 days prior to the program will be
held at the box office.

Student and General Tickets:

Charge by phone: (415) 642-9988 **OR**

Mail this form with a self-addressed, stamped envelope to:
(Please make check payable to
REGENTS OF THE UNIVERSITY OF CALIFORNIA)

Ticket Office
101 Zellerbach Hall, University of California
Berkeley, CA 94720

*** Sponsor and Patron Tickets:**

A **sponsor** ticket includes one preferred seat and an
invitation for one to lunch with the symposium speakers the
day of the program.

A **patron** ticket includes two preferred seats and invitations
for two to a private dinner party with the speakers the
evening preceding the symposium, as well as lunch for two
with the speakers on the day of the program.

Charge by phone: (818) 449-0507 **OR**

Mail this form to: (Please make check payable to
L.S.B. LEAKEY FOUNDATION)

L.S.B. Leakey Foundation
Foundation Center 1-7
Pasadena, CA 91125

*Adult Education
and Travel*

The Adult Education Office offers a wide
variety of classes and study tours on a variety
of natural history topics. For information call
(415) 750-7098

**Birds of the Baylands
Saturday, January 18
8:30 a.m. - 5:30 p.m.**

**Cost: \$25 members or \$35 non-members
includes transportation, instruction and
refreshments.**

Dan Murphy will lead this trip to the Palo Alto
Baylands. A pleasant walk through some of
the best preserved marshes in San Francisco
Bay may lead to sightings of Virginia clappers,
black rails and as many as 50 other species of
birds, including several species of wintering
hawks.

Academy Expeditions

Plan your 1986 travels now. There are
diverse destinations with adventure and
education for every traveler. For information
call the Academy Travel Office at (415)
750-7222.

**A Special Travel Offering
BAJA CALIFORNIA CIRCUMNAVIGATED
March 22 - April 5**

Academy participants on this tour will enjoy
tidepooling, snorkeling, and hiking as they
explore Baja California's wealth of natural
history. Dr. George Lindsay, Director Emeritus
of the California Academy of Sciences, will
share his interest in desert ecology and the
preservation of marine mammals as guest
lecturer on this trip. The trip begins as
participants fly to Bahia de Los Angeles, on
the shores of the Sea of Cortez, to board the
comfortable *Pacific Northwest Explorer*.
Heading southward, the ship will call at many
of the picturesque islands of the Sea of
Cortez: Isla Angel de la Guardia, San Pedro
martir, San Marcos, Santa Catalina, Los Islotes,
Partida South, and Espiritu Santo. Rounding
the tip of the peninsula and heading

northward, passengers will enjoy a cruise into
Santa Magdalena Bay and San Ignacio Lagoon
to watch the breeding and calving activities of
the California gray whale. Passengers will also
visit Isla Cedros to observe elephant seals and
sea lions in abundance. The tour ends in San
Diego. Costs range from \$3150 - \$4180 plus
air fare to San Diego. For a brochure, please
call the Academy Travel Office at (415)
750-7222.

Other 1986 Expeditions include:

**THE NATURAL HISTORY OF COSTA
RICA**

February 5 - 19
\$2295 including air fare from Los Angeles

**HALLEY'S COMET AND
GAMEWATCHING IN NAMIBIA AND
BOTSWANA**

April 4 - 21
\$3298 land and \$1587 air from New York
WILDERNESS GRAND CANYON
April 6 - 11
\$545 plus air fare

**ARIZONA IN THE SPRING: The Sonoran
Desert and the Chiricahuas**

April 12 - 20
\$1290 plus \$170 air fare

**ANTIQUITIES AND TALL SHIPS:
A cruise through the Mediterrean**

May 24 - June 8
\$4945 to \$8445 including air fare

KENYA ADVENTURE SAFARI
June 4 - 18

\$1745 land plus \$1400 air fare

A NATURALIST'S AUSTRALIA
August 14 - September 7

\$3100 land plus \$1816 air fare

**GRAND CANYON WHITEWATER
EXPEDITION**

August 17 - 31
\$1396 plus air fare

ALASKAN ODYSSEY CRUISE

August 30 - September 11
\$2810 - \$3990 cruise plus air fare

**AMERICA'S OWN: Chesapeake Bay and
the Smithsonian**

September 30 - October 15
\$2400 - \$2542 plus \$298 air fare

**JUNGLE RIVERS OF SOUTH AMERICA:
The Orinoco and the Amazon**

September 30 - October 15
\$3990 to \$8690 plus \$1220 air fare

**A WILDLIFE SAFARI TO INDIA AND
NEPAL**

October 28 - November 20
\$3452 plus \$1805 air fare

**ARCHAEOLOGICAL ADVENTURE: El
Tajin, Central Mexico and Oaxaca**

November 2 - 17
\$1790 plus \$390 air fare

*The Month
At A Glance*

JANUARY

- 4 Traditional Arts - **American folk dances**
- 5 Last day of **The Christmas Star**
- 8 Members' Meeting
- 9 Members' Meeting
- 10 **Halley's Comet Update opens**
- 11 Traditional Arts - **French songs**
- 18 Traditional Arts - **Acoma pottery**
- 21 **Berkeley Mandolin Ensemble with Rudy Cipolla** in planetarium
- 25 Traditional Arts - **Scottish dances**
- 26 Young Audiences - **Court Revels**

**1985 was an exciting and eventful year
at the Natural History Museum. We look
forward to sharing more memorable
times with you in 1986.**



January Members' Meeting

Dates & Times

Matinee, 2:00 p.m., Wednesday, January 8
Evenings, 8:00 p.m., Wednesday and
Thursday, January 8 and 9

Place

Morrison Auditorium

Speaker

Corrado G. Letta

Subject

The Peoples and Cultures of Indonesia



Indonesia is a country of unparalleled diversity -13,677 islands that are home to 160 million people with over 100 ethnic groups and 300 mutually unintelligible languages. The complexity of the land equals the cultural pot-pourri of the people. Rich black and immaculately white sand dunes, fertile rain-forests, alpine meadows and 70 active volcanoes are spread over three quarters of a million square miles of land mass. Philosopher, photographer and world traveler, Corrado G. Letta will present a vignette of life in Indonesia with its joys, beauties and hardships.

Sneak Preview: February 12 and 13, Dr. Luis Baptista will recount his recent adventures in Papua, New Guinea.

The California Academy of Sciences
presents The Claire Matzger Lilienthal
Distinguished Lecture



Halley's Comet:
On the Eve
Of Encounter

Dr. Carl Sagan

Saturday, February 15 8:00 p.m.
Masonic Auditorium
1111 California Street, San Francisco

Dr. Carl Sagan has brought the principles and visions of astronomy to life for people around the globe. Author of the Pulitzer Prize-winning best seller *Dragons of Eden* and host of the public television series *Cosmos*, Dr. Sagan has presented to millions the most recent findings on the origins of the universe. Moreover, he has philosophically asked what role we, inhabitants of one small planet in a very small galaxy, will play in the future of that universe. Join Dr. Carl Sagan for this very special look at our place in the cosmos.

Tickets are available on a first come, first serve basis. To order tickets, please send this form with a check made payable to the California Academy of Sciences and a self-addressed, stamped envelope to: Lilienthal Lecture Series, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118.

No telephone orders can be accepted.

Name _____

Address _____

City and Zip _____

Daytime phone _____

Member's tickets at \$4 each _____

Non-member's tickets at \$5 each _____

Total amount enclosed _____

NO REFUNDS/NO EXCHANGES

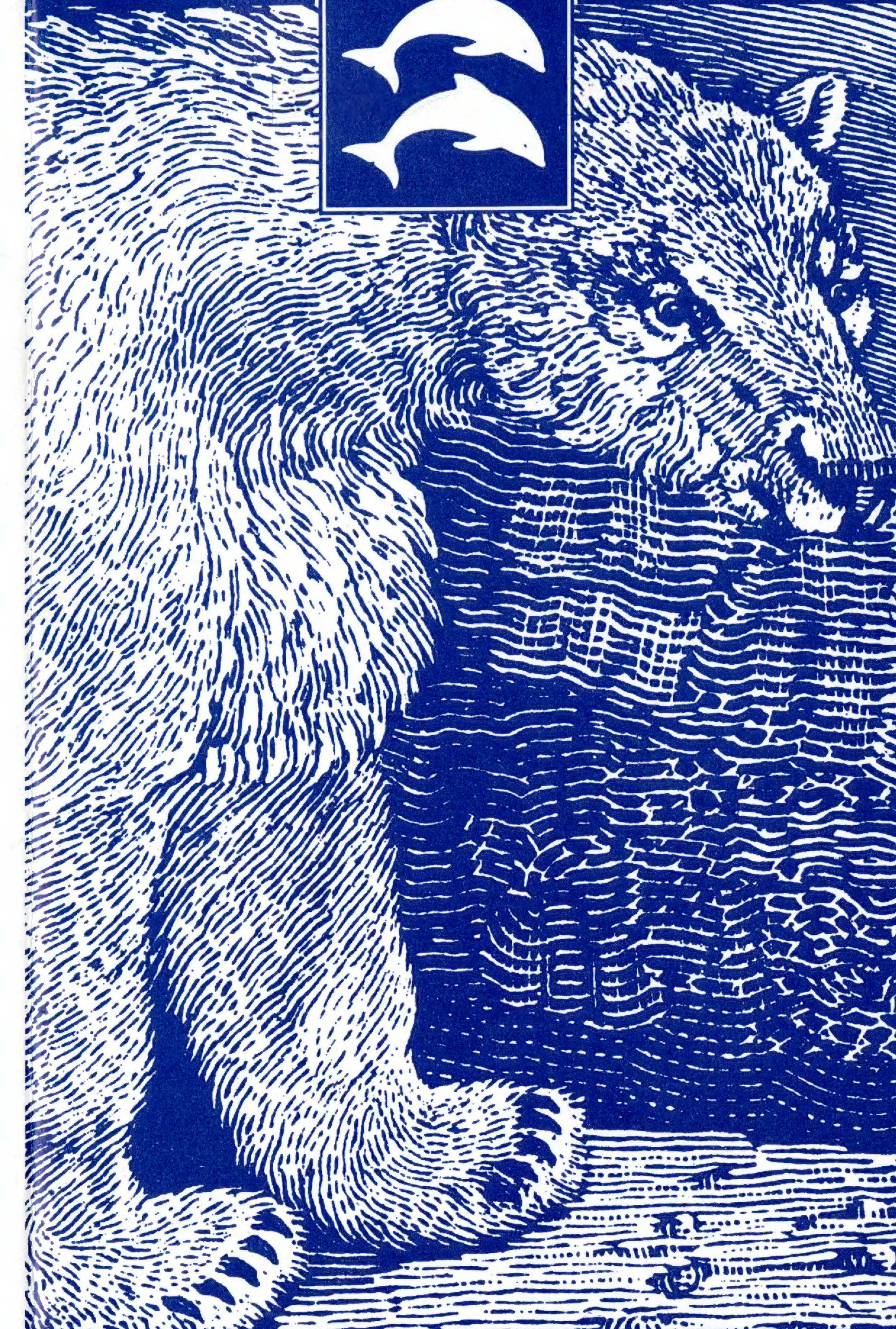
Golden Gate Park
San Francisco, California 94118-9961
(415) 221-5100

Open every day of the year
from 10 until 5



California Academy of Sciences

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NEWSLETTER

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